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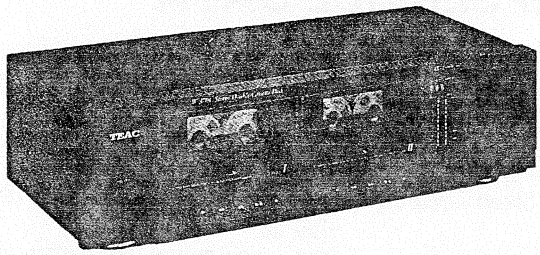
TEAC®



SERVICE MANUAL

W-370C/W-375C/W-350/W-355
W-310C MK II/W-300 MK II

Stereo Double Cassette Deck

CAUTION

⚠Parts marked with this sign are safety critical components. They must always be replaced with indentical components– refer to the appropriate parts list and ensure exact replacement.

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Effective: SEPTEMBER 1988

9103002800

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1. SPECIFICATIONS AND SERVICE DATA

SPECIFICATIONS

Track System 4-track, 2-channel stereo
Heads Play I: Playback *1
REC/PLAY II: Erase *1, Record/Playback *1
Type of Tape Cassette tape, C-60 and C-90 (philips type)
Tape Speed 4.8 cm/s(1-7/8 ips), 9.5cm/s(3-3/4ips);
(Hi speed Dubbing)
Input (level and impedance)
LINE IN :Specified input level: -9dB (275 mV)/50kohms
Min.input level: -19dB (86.9mV)
Output (level and load impedance)
OUTPUT: Spec. output level:
W-370C,W-375C,W-310CmkII: -4.5 dB (461mV)
W-350,W-355,W-300mkII: -3.5 dB (518mV)
Equalization
METAL: 3180 μS+ 70 μS
CrO2: 3180 μS+ 70 μS
NORMAL: 3180 μS+ 120 μS
Head Configuration
1/2-track, 1-channel erase head
1/4-track, 2-channel record/playback head
Motor PLAY I: 1 DC servo motor,
REC/PLAY II: 1 DC servo motor
Bias Frequency 100kHz
Operation Position Horizontal
Power Requirements
110/120/220/240 V AC,50/60Hz (General Export Models)
120 V AC,60Hz (U.S.A/Canada)
220 V AC,50Hz (Europe)
240 V AC,50Hz (U.K./Australia)
100 V AC,50Hz (JAPAN)
Power Consumption 9W
Weight 3.3kg (7-1/16 lbs)
Dimensions (W*H*D)
435*120*215mm
(17-1/8"*4-3/4"*8-7/16")

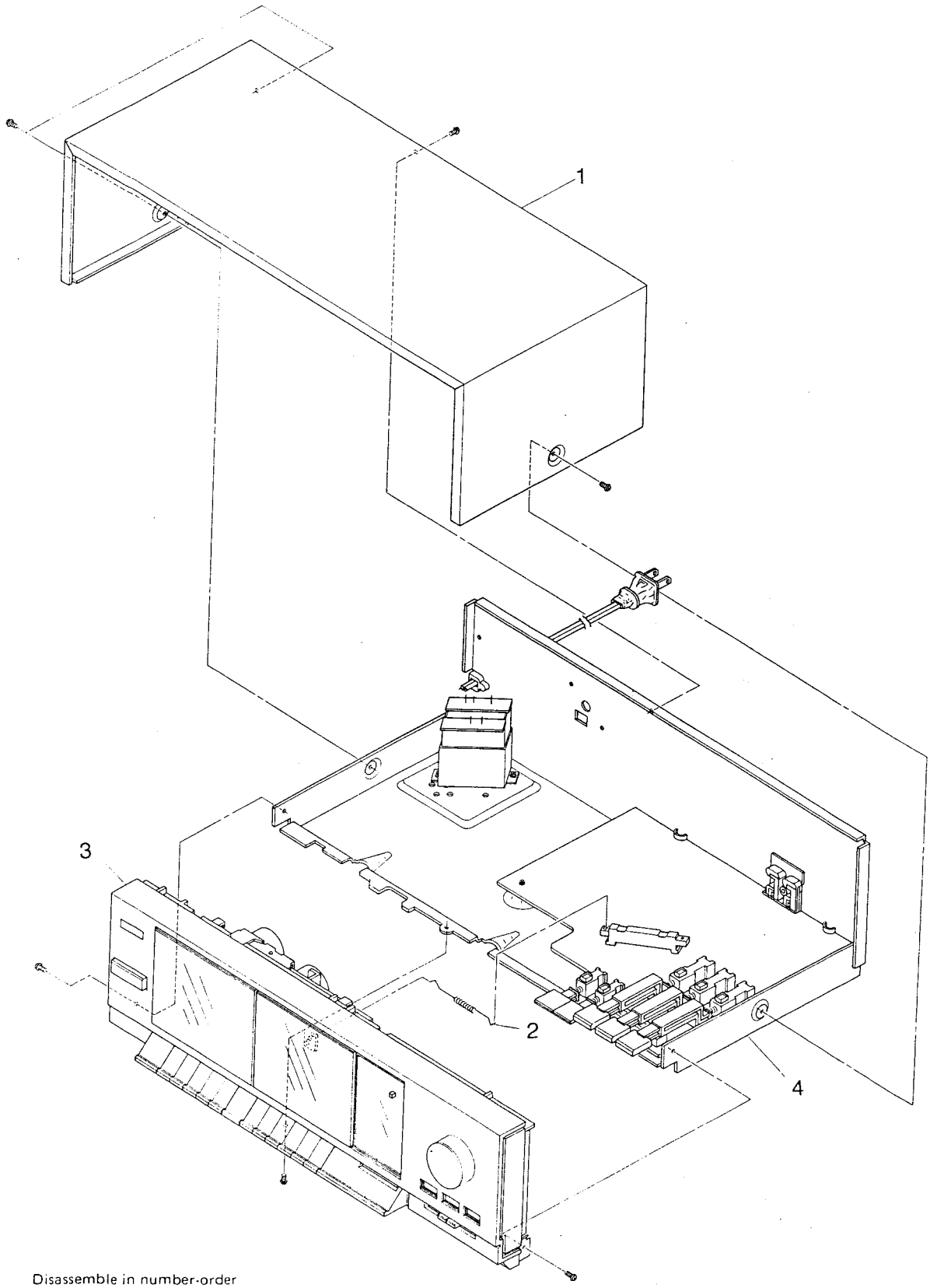
NOTES:
Improvements may result in SPECIFICATIONS AND SERVICE DATA chanfes.
Value of "dB" in the data refers to 0 dB (0.775 V), expect where Specified.

SERVICE DATA

MECHANICAL
Tape Speed Deviation 3,000 Hz +90,-60 Hz,6000 Hz+180, -120 Hz
Tape Speed Drift 45 Hz (LOW SPEED),90Hz (HIGH SPEED)
Wow and Flutter
Playback: 0.38% (RMS)
Pinch Roller Pressure 250 g to 470 g (8.8oz to 16.5 oz)
Reel Torque
Take-up: 30 to 60 g-cm (0.42 to 0.84 oz-inch)
Supply: 1 to 4 g-cm (0.014 to 0.056 oz-inch)
F.F: 55 to 120g-cm (0.77 to 1.68 oz-inch)
REW: 55 to 120g-cm (0.77 to 1.68 oz-inch)
Fast Wind Time
120 sec or less for MTT-5511 (C-60)
Auto End-stop Time 5 sec. or less

ELECTRICAL
Frequency Response
See Figs. 5-7 & 5-9
Signal-to-noise Ratio
Playback: NORMAL: 45 dB min.
Record/Playback
METAL, CrO2: 46 dB min.
NORMAL: 45 dB min.
Erase Efficiency
65 dB min. at 1 kHz (measured with input 10 dB higher than the specified input level).
Channel Separation 30 dB min. at 1 kHz
Adjacent Track Crosstalk 40 dB min. at 125 Hz
Total Harmonic Distortion 2.0% or less with NORMAL
2.5% or less with CrO2, METAL

2 CASE AND FRONT PANEL REMOVAL



Disassemble in number-order

3 PARTS LOCATION

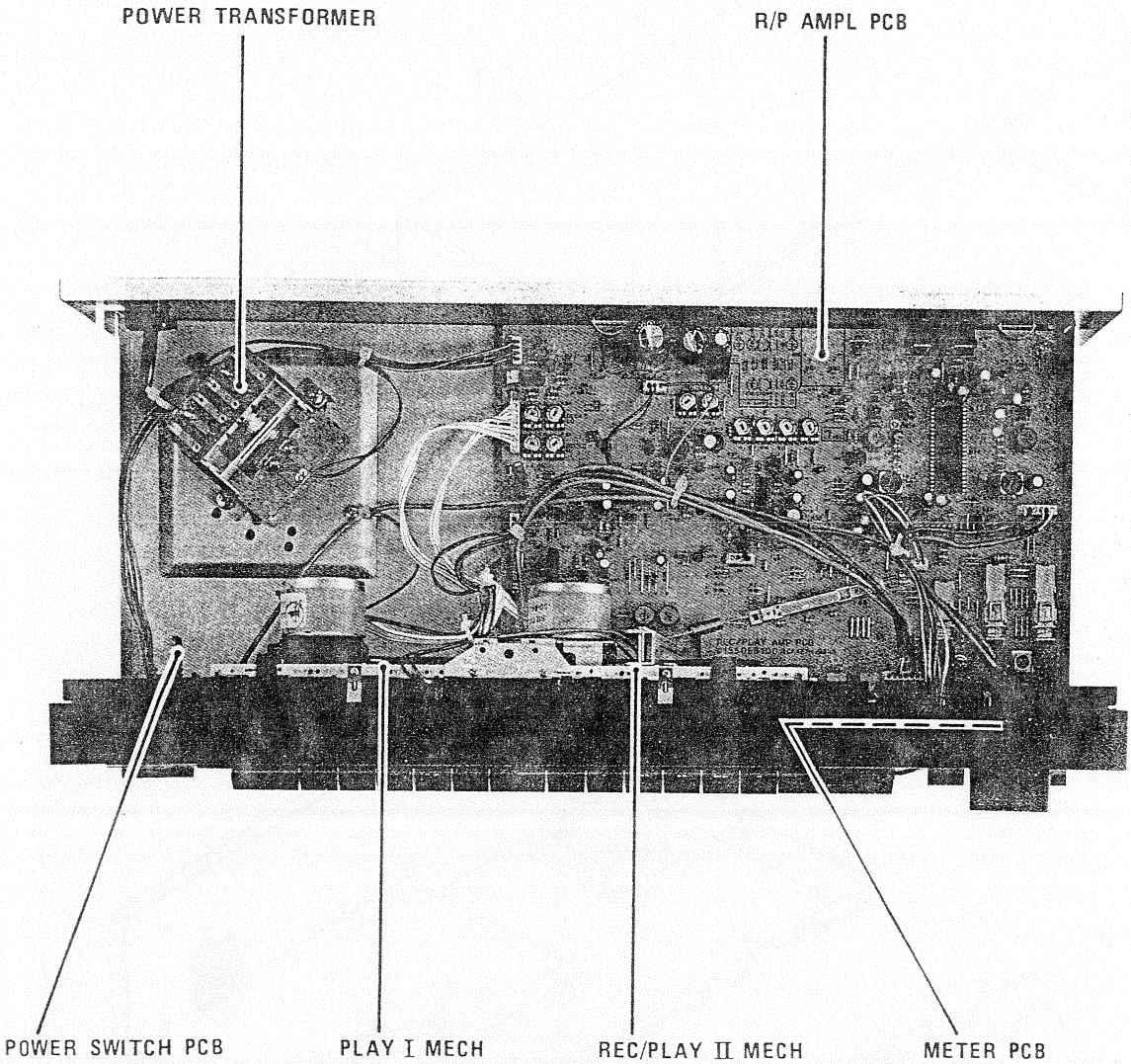


Fig. 3-1 Top view (W-370C)

4 MECHANICAL ADJUSTMENT AND CHECKS

4-1 WOW AND FLUTTER

Note: This measurement should be made at the begining, middle, and the end of the tape.

PLAYBACK

1. Connect a wow-and-flutter meter to the deck as shown in Fig. 4-1.
2. Load and play a TEAC MTT-111 test tape.
3. Check that the reading on the wow-and-flutter meter is within 0.38% (RMS).

4-2 TAPE SPEED

1. Connect a frequency counter to the deck as shown in Fig. 4-1.
2. Simply press POWER switch to ON to rotate the motor, then continue the motor rotation for approx. 1 minute for warmp-up.
3. As soon as the warm-up finishes, load a TEAC MTT-111 test tape with a 3,000 Hz test tone and play the end of the test tape.
4. Adjust each variable resistor to get the following figures.
   Short TP (SPEED ADJ) to get the double tape speed (HIGH speed). Never press TAPE SPEED switch to HIGH position.

	Adjustment point		Adjustment value
PLAY I	HIGH speed	R32	6020 ~ 6040
	LOW speed	R31	3010 ~ 3020
REC/PLAY II	HIGH speed	R34	6000 ~ 6020
	LOW speed	R33	3000 ~ 3010

* At first, adjust NORMAL tape speed.

5. In play mode, check that the following figures are obtained at the beginning and at the end of the tape.

	LOW speed	HIGH speed
Speed deviation	3000 Hz +90, –60 Hz	6000 Hz +180, –120 Hz
Speed drifting	Within 45 Hz	Within 90 Hz

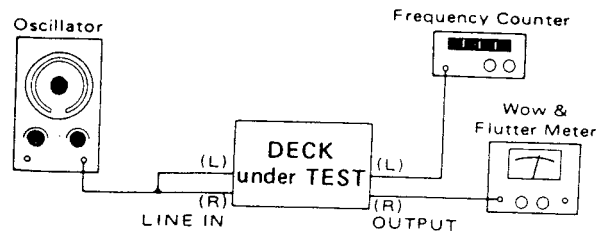


Fig. 4-1

4-3 REEL TORQUE

1. Load the cassette torque meter on the deck and read the pointer indication on the dial scale for each tape transport operation. The measured torque should be within the following specified values:

Specifications:

Take-up: 30 ~ 60g-cm (0.42 ~ 0.84 oz-inch)
Supply: 1 ~ 4g-cm (0.014 ~ 0.056 oz-inch)
F.F./REW: 55 ~ 120g-cm (0.77 ~ 1.68 oz-inch)

4-4 LUBRICATION

Lubrication is only required when parts are replaced. For this purpose, use the oil specified below.

Oil: TEAC spindle oil (from TEAC TZ-255 oil kit),
Mobil D.T.E. Oil Light, or equivalent

Apply a drop of oil with an oil applicator to a point about 1/3 the way down the shaft (from the free end) of the flywheel, then insert the shaft into the capstan housing.

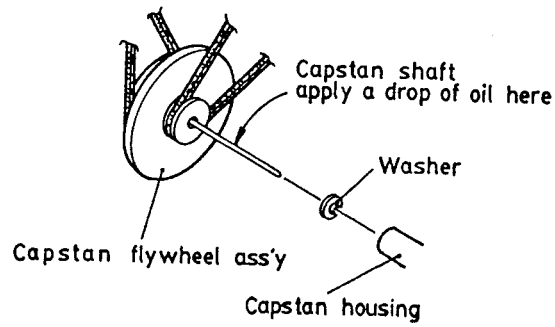


Fig. 4-2

4-5 VOLTAGE CONVERSION (General Export Models only)

1. ALWAYS DISCONNECT THE POWER LINE CORD BEFORE MAKING THESE ADJUSTMENTS!
2. Locate the voltage selector on the rear panel.
3. Using a regular screwdriver, turn the selector until the numerals corresponding to the voltage requirements of your area appear.

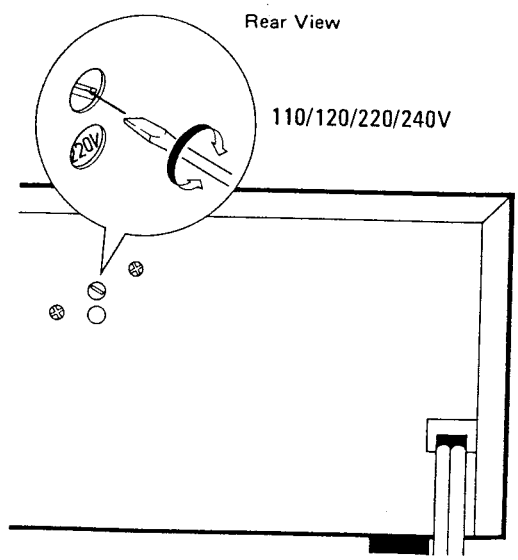


Fig. 4-3

5 ELECTRICAL ADJUSTMENT AND CHECKS

PRECAUTIONS

1. Before performing adjustments and checks clean and demagnetize the entire tape path.
2. Make sure the deck is properly set for the voltage in your locality.
3. In general, adjustments and checks are made in the order of L-ch then R-ch. Double REF. Nos. and test point designations indicate L-ch/R-ch. (Example: R11/R21)
4. 0 dB is referenced to 0.775 V. If an AC voltmeter that references 0 dB to 1 V is used, appropriate compensation should be made.
5. The AC voltmeter used in the procedures must have an input impedance of 1 M-ohmes or more.
6. Note the "Deck settings" at the top of each chart. The settings apply to all check for a specific chart unless explicitly stated otherwise.
7. Since this deck has an automatic tape selector, be sure to use test tapes that have tape position detecting holes.

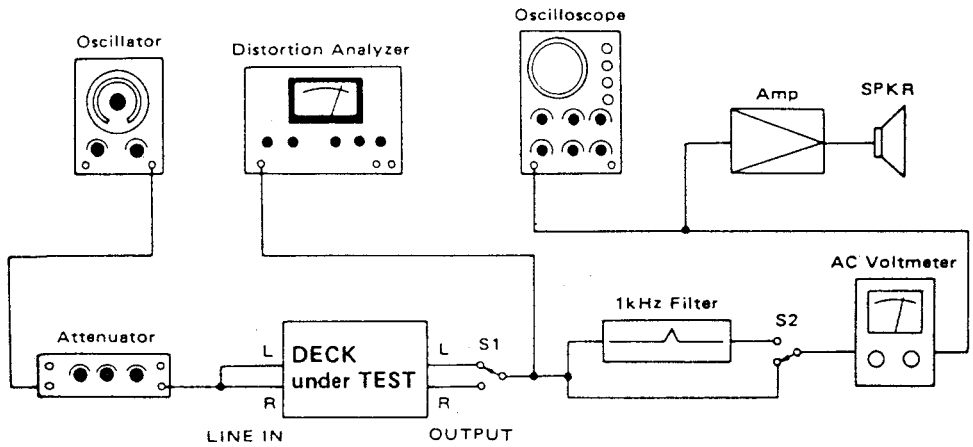


Fig. 5-1 Basic test setup

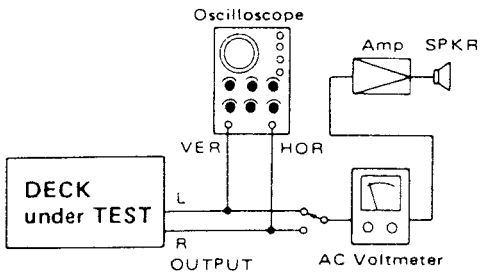


Fig. 5-2 Test setup for azimuth check

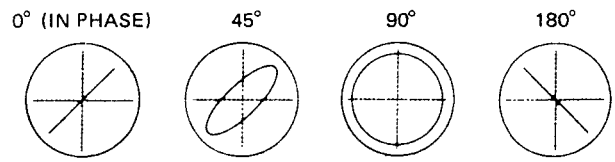


Fig. 5-3 Confirming phase relationship

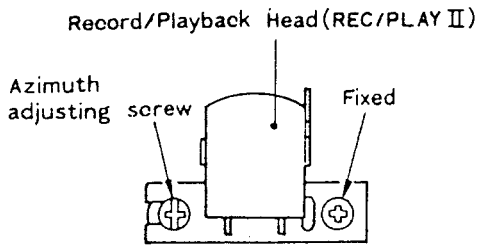


Fig. 5-4 Azimuch screw location

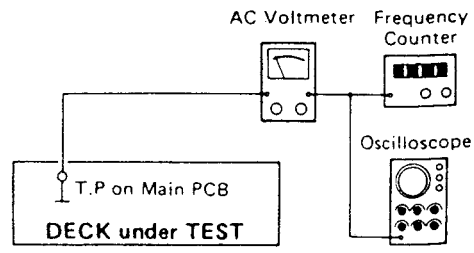


Fig. 5-5 Test setup for bias adjustment

5-2 PLAYBACK PERFORMANCE

TEAC test tapes:
MTT-150C: For Dolby level calibration
MTT-256: For playback frequency response check for NORMAL
MTT-356: For METAL and CrO2
MTT-5511: For S/N check with NORMAL

Deck settings:
DOLBY NR sw: OUT

ITEM	SETTING	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT: RESULT	REMARKS
1. REC/PLAY head azimuth	Connection:Fig. 5-2	MTT-150C	CHECK	OUTPUT: Phase: within 45°	Refer to Fig. 5-3
		MTT-256 (10 kHz)	Azimuth screws or R-P head (Fig. 5-4)	OUTPUT: Max. output at L & R-ch's (on VTVM)	
2. Specified output level	Connection: Fig. 5-1	MTT-150C	R11/R21 (PLAY I) R21/R22 (REC/PLAY II)	W-310CmkII, W-370C, W-375C: T.P. (DOBLY) 245mV (-10dB) W-300mkII, W-350 W-355: T.P. (DOBLY) 580mV (-2.5dB)	See page 8.
	Connection: Fig. 5-1	MTT-150C	Check	OUTPUT: W-310CmkII, W-370C, W-375C: -4.5 dB ±1 dB (411 to 518 mV) W-300mkII, W-350 W-355 : -3.5 dB ±1 dB (461 to 581mV)	
3. Frequency response	NORMAL	MTT-256	Check	OUTPUT:Fig. 5-7	
	CrO2	MTT-356	Check	OUTPUT:Fig. 5-7	
4. Signal-to-noise ratio S/N	Tape:MTT-5511 Play mode	Fully erased MTT-5511 tape (Use bulk tape eraser)	Check	OUTPUT: 45 dB min.	Ratio of spec. output level W-310CmkII, W-370C, W-375C: -4.5 dB W-300mkII, W-350 W-355 : -3.5 dB to noise

5-3 MONITOR PERFORMANCE

Deck settings:
RECORD-PAUSE mode
DOLBY NR sw: OUT

ITEM	SETTING	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT: RESULT	REMARKS
5. Specified LINE input level	———	LINE IN: 400 Hz/-9 dB (275mV)	RECORDING LEVEL cont. (L/R)	OUTPUT: W-310CmkII, W-370C, W-375C: -4.5 dB ±1 dB (411 tO 518 mV) W-300mkII, W-350 W-355 : -3.5 dB ±1 dB (461 to 581mV)	Refer to Fig. 5-5
	IMPORTANT:Do not change the setting of the RECORD LEVEL controls after establisting setting as above.				

5-4 RECORDING PERFORMANCE

Deck settings:
DOLBY NR sw: OUT
RECORDING LEVEL cont. (L/R):
Specified position (item 5)

TEAC recording test tapes:
MTT-5571: For METAL
MTT-5561: For CrO2
MTT-5511: For NORMAL

ITEM	SETTING	INPUT SIGNAL	ADJUST (or CHECK)	MEASURING POINT: RESULT	REMARKS
6. BIAS osc.	Connection: Fig. 5-5 Tape:MTT-5511 RECORD/PAUSE mode	LINE IN: No signal	L301	T.P L/R (BIAS) 100 kHz on frequency counter	Specified bias frequency
7. Record bias	Tape: MTT-5511 RECORD/PLAY mode	LINE IN: 400 Hz & 10 kHz alternately/ -42dB (6.15mV) Record and reproduce them.	R14/R24	OUTPUT: Nearly equal level at both frequencies	Repeat if the result is unsatisfactory
8. BIAS FINE control check	Tape: MTT-5511 BIAS FINE cont: fully "-" position then fully "+" position	10 kHz/-42 dB (6.15mV)	Check	Measure output level (record playback) at "-" position then at "+" position Variation between "-" and "+" positions: 5 dB or more	W-310CmkII, W-370C W-375C only
9.Record level	Tape: MTT-5511	LINE IN: 400 Hz/-12 dB (195mV) Record and reproduce them.	R13/R23	OUTPUT: W-310CmkII, W-370C, W-375C: -7.5dB (327mV) W-300mkII, W-355 W-350: -6.5dB (367mV)	
	Tape: MTT-5561 Tape: MTT-5571 NR SYSTEM: IN & OUT		Check	OUTPUT: W-310CmkII, W-370C, W-375C: -7.5dB±1.5 dB (275mV to 388mV) W-300mkII, W-355 W-350: -6.5dB±1.5 dB (308mV to 436mV)	
10.Frequency response	Tape: MTT-5511 Tape: MTT-5561 Tape: MTT-5571	LINE IN: Required frequencies: -42 dB (6.15mV)	Check	Standard: Fig.5-8 to Fig.5-9	If out of spec. recheck #7
11.Signal-to-noise ratio	Tape: MTT-5571 Tape: MTT-5561 Tape: MTT-5511	LINE IN: 1kHz/-9dB (275mV) ↓ no signal	Check	OUTPUT: 46 dB min. [METAL,CrO2] 45 dB min. [NORMAL]	Ratio of specified output level: W-310CmkII, W-370C W-375C: -4.5 dB W-300mkII, W-350 W-355: -3.5 dB to noise

5-5 FREQUENCY RESPONSE

5-5-1 PLAYBACK

Tape: MTT-256 (NORMAL)

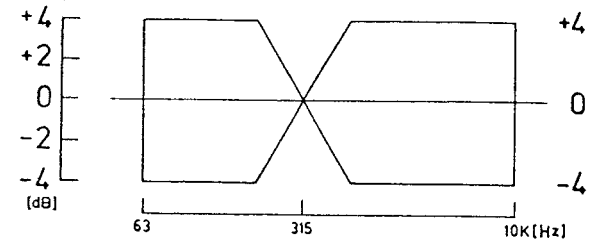


Fig. 5-7 Playback frequency response

5-5-2 OVERALL

Tape: MTT-5511 (NORMAL)
Tape: MTT-5561 (CrO_2)
Tape: MTT-5571 (METAL)

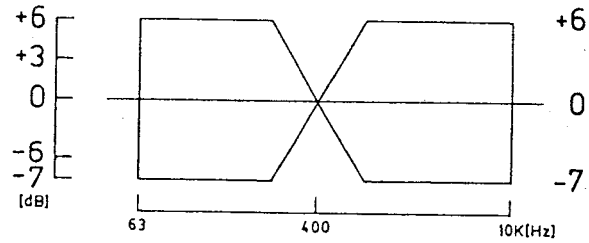


Fig. 5-8 Overall frequency response (Dolby NR: IN)

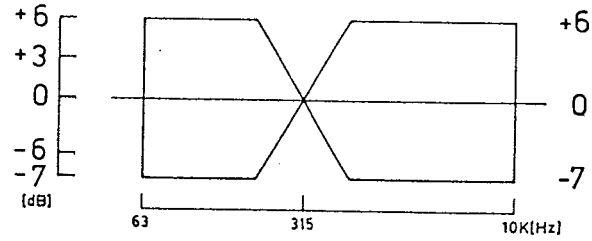


Fig. 5-9 Overall frequency response (Dubbing: Low/High speed)

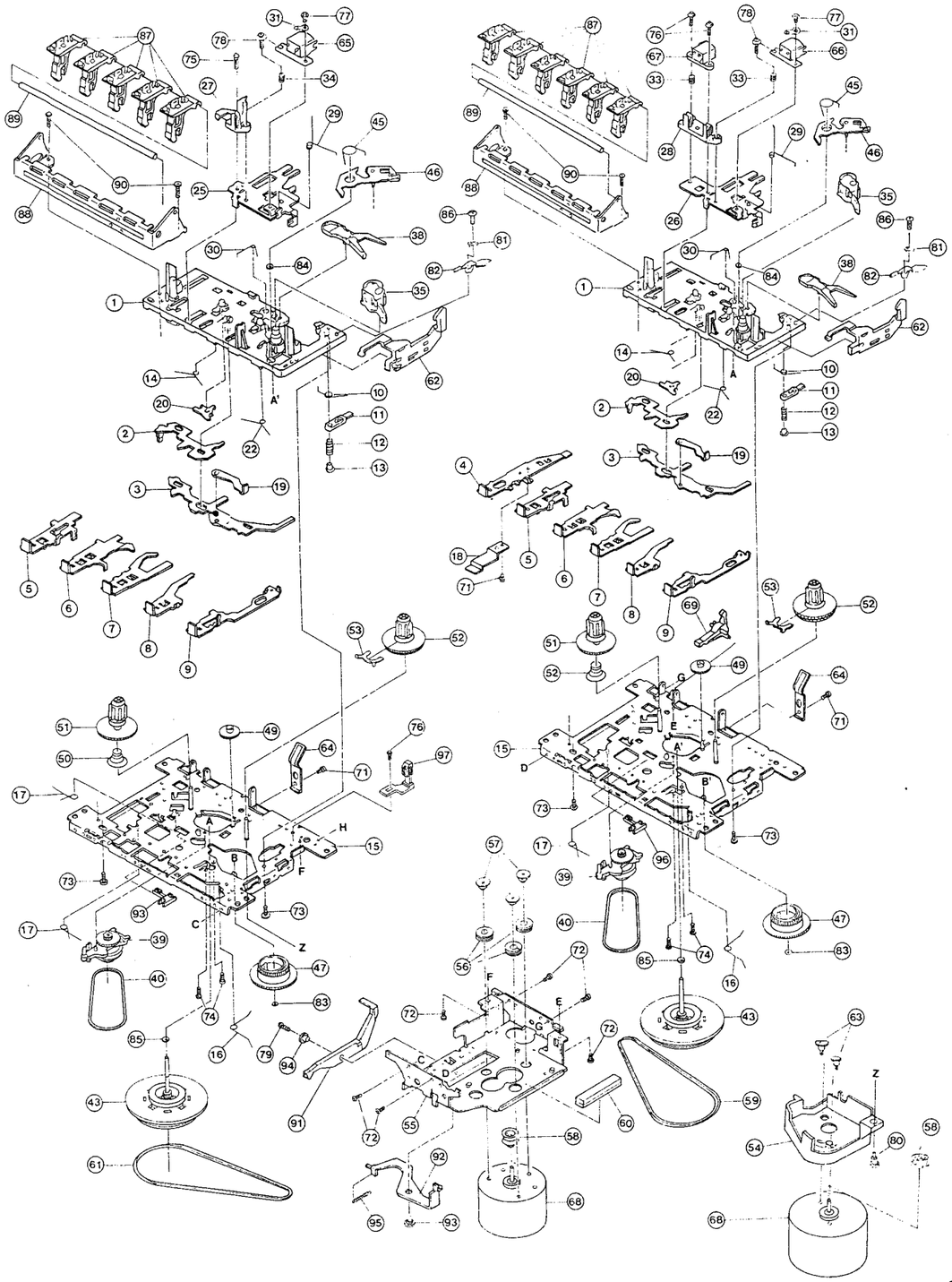
PARTS LIST SECTION

NOTES:

1. As regards the resistors and capacitors, refer to the circuit diagrams and the PCB ass'y drawings included in this brochure.
2. parts marked with ⚠ this sign are safety critical components. They must always be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.

6 EXPLODED VIEWS AND PARTS LIST

EXPLODED VIEW-1

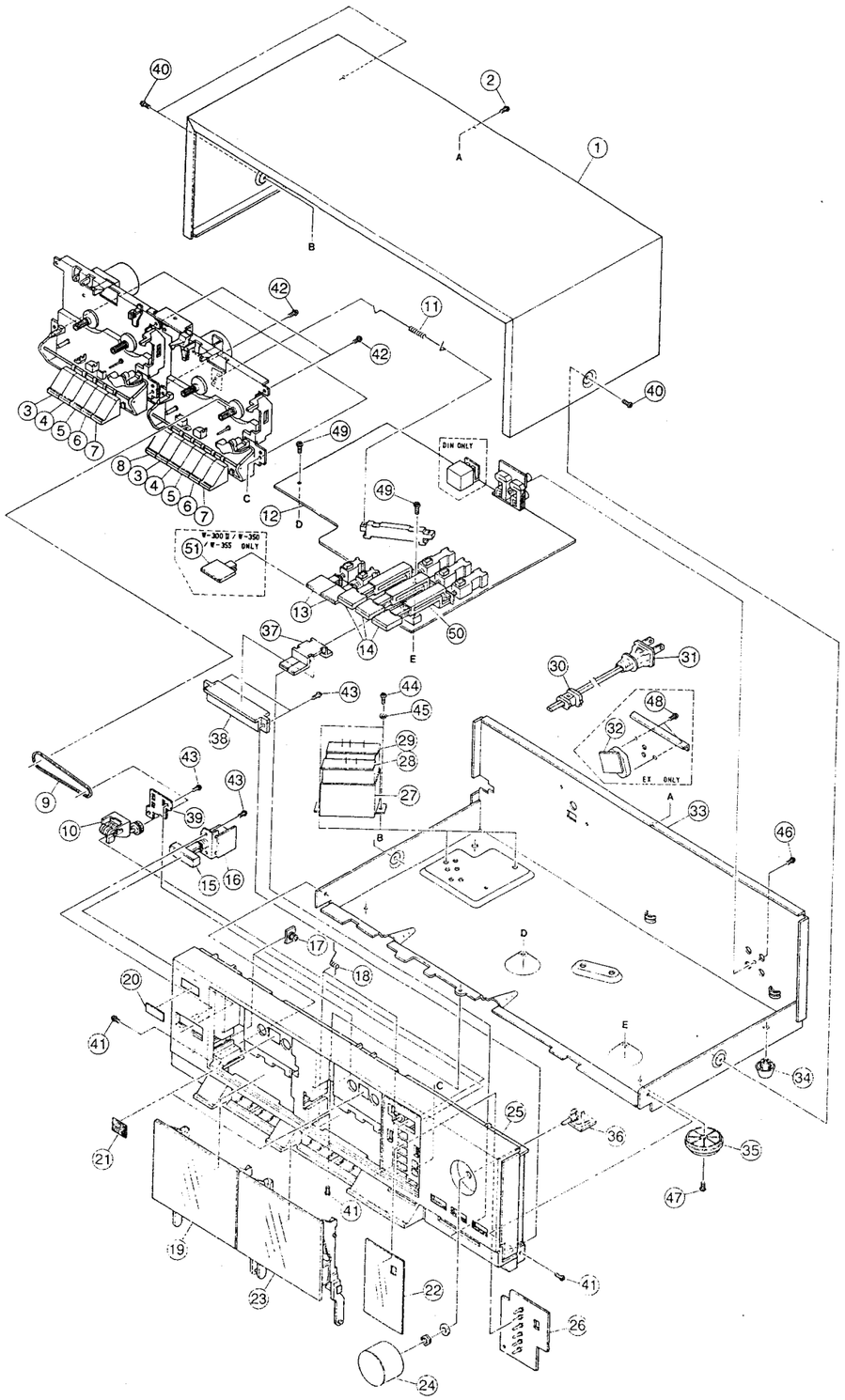


EXPLODED VIEW-1

REF.NO.	PARTS NO.	DESCRIPTION
1 - 1	9278266000	BASE ASSY
1 - 2	9278266100	SWITCH ACTUATOR
1 - 3	9278266200	PUSH BUTTON ACTUATOR
1 - 4	9278266300	REC BUTTOM LEVER
1 - 5	9278266400	PLAY BUTTON LEVER
1 - 6	9278266500	REW BUTTON LEVER
1 - 7	9278266600	FF BUTTON LEVER
1 - 8	9278266700	STOP BUTTON LEVER
1 - 9	9278266800	PAUSE BUTTON LEVER
1 -10	9278266900	P CONTROL SPRING
1 -11	9278267000	PAUSE LEVER
1 -12	9278267100	PAUSE LEVER SPRING
1 -13	9278267200	PAUSE STOPPER
1 -14	9278267300	BUTTON LEVER SPRING (A)
1 -15	9278267400	CHASSIS ASSY
1 -16	9278267500	E ACTUATOR SPRING
1 -17	9278267600	P.S. LEVER SPRING
1 -18	9260080300	REC LEVER
1 -19	9278267700	E KICK LEVER
1 -20	9278267800	PR STOPPER
1 -21	9278267900	REC BUTTON LEVER SPRING
1 -22	9278268000	BUTTON LEVER SPRING (B)
1 -25	9278292600	HEAD PANEL
1 -26	9278268100	HEAD PANEL
1 -27	9278292700	HEAD BASE
1 -28	9278268200	HEAD BASE
1 -29	9278268300	PANEL P SPRING
1 -30	9278268600	M CONTROL SPRING
1 -31	9278292400	B3 LUG
1 -33	9278197900	EH SPRING
1 -34	9278198400	AZIMUTH SPRING
1 -35	9278268700	PINCH ROLLER ARM ASSY
1 -38	9278268800	SENSING LEVER
1 -39	9278292800	RF CLUTCH ASSY
1 -40	9278289300	RF BELT
1 -43	9278289400	FLYWHEEL ASSY
1 -45	9278268900	GEAR PLATE SPRING
1 -46	9278289000	GEAR PLATE ASSY
1 -47	9278289100	CAM GEAR
1 -49	9278199900	FF GEAR
1 -50	9278200000	BACK TENSION SPRING
1 -51	9278289700	SUPPLY REEL ASSY
1 -52	9278289800	TAKE UP REEL ASSY
1 -53	9278289900	SENSER
1 -54	9278292900	MOTOR BRACKET

REF.NO.	PARTS NO.	DESCRIPTION
1 -55	9278293000	MOTOR BRACKET
1 -56	9278293100	MOTOR RUBBER
1 -57	9278293200	MOTOR COLLER SCREW
1 -58	9278293300	MOTOR PULLEY
1 -59	9278293400	MAIN BELT
1 -60	9278293500	ANTI VIBRATION FELT MAT
1 -61	9278290300	MAIN BELT
1 -62	9278290500	EJECT SLIDE LEVER
1 -63	9278290100	MOTOR COLLER SCREW
1 -64	9278201401	PACK SPRING
1 -65	9278212300	PLAY HEAD P-7442
1 -66	9278211800	R/P HEAD RP-7442
1 -67	9278201701	E HEAD LE15A-C1
1 -68	9278212000	MOTOR SHU2L50
1 -69	9278200300	RECORD SAFETY LEVER
1 -71	9278202000	C TAPPING SCREW M2*3
1 -72	9278293600	C TAPPING SCREW M2*4
1 -73	9278202200	C TAPPING BIND SCREW M2*5
1 -74	9278291000	TAPPING SCREW M2*4.5
1 -75	9278293700	SCREW M2*8
1 -76	9278291200	CAP SCREW M2*8
1 -77	9278251800	BIND SCREW M2*3
1 -78	9278202700	AZIMUTH SCREW M2*7
1 -79	9278293800	C TAPPING SCREW M2*6
1 -80	9278290400	MB SCREW
1 -81	9278292100	P ARM
1 -82	9278292200	P ARM COLLAR
1 -83	9278291400	P WASHER CUT 1.2*3.8*0.3
1 -84	9278291500	P WASHER CUT 1.45*3.8*0.5
1 -85	9278253200	P WASHER CUT 2*3.5*0.3
1 -86	9278292300	PS TAPPING SCREW 2*3.5
1 -87	9278203600	OPERATION LEVER
1 -88	9278203700	B FRAME (S)
1 -89	9278292000	BUTTON LEVER
1 -90	9278291700	S TAPPING SCREW M2*8
1 -91	9278293900	P KICK LEVER (B)
1 -92	9278294000	P KICK LEVER (A)
1 -93	9278294100	PK COLLER SCREW (A)
1 -94	9278294200	COLLER (B)
1 -95	9278294300	P KICK LEVER SPRING
1 -96	9278282500	LEAF SWITCH
1 -97	9278204700	CrO2 SWITCH

EXPLODED VIEW-2



EXPLODED VIEW-2

Parts marked with *require longer delivery time

REF.NO.	PARTS NO.	DESCRIPTION	MODELS	REMARKS
2 - 1	*9260053001	BONNET		
2 - 2	9783593008	SCREW, C-TITE M3*8 (NI-BLK)		
2 - 3	9260077701	BUTTON, PLAY		
2 - 4	9260082001	BUTTON, REW		
2 - 5	9260082101	BUTTON, FF		
2 - 6	9260082201	BUTTON, STOP		
2 - 7	9260082301	BUTTON, PAUSE		
2 - 8	9260082501	BUTTON, REC		
2 - 9	9260081700	BELT, COUNTER		
2 -10	9260083500	COUNTER		
2 -11	*9260082600	BAR, RECORD		
2 -12	*9145054100	PCB ASSY, R/P [EXCEPT E]	1,2	
	*9145054110	PCB ASSY, R/P [E]	3	
	*9145053100	PCB ASSY, R/P [EXCEPT E]	4,5	
	*9145053110	PCB ASSY, R/P [E]	6	
2 -13	9260080400	BUTTON B, PUSH	4,5,6	
2 -14	9260078400	BUTTON A, PUSH		
2 -15	9260081900	BUTTON, POWER		
2 -16	*9145053401	PCB ASSY, POWER SWITCH		
2 -17	9260077300	DAMPER		
2 -18	*9260087900	SPRINT, CASE		
2 -19	*9260080700	LOADING CASE I	1,3,4,6	
	*9260088900	LOADING CASE B	2,5	
2 -20	5720175500	TEAC EMBLEM		
2 -21	5800822400	REFLECT TAPE		
2 -22	*9260081000	COVER, METER	1,3,4,6	
	*9260088800	COVER, METER	2,5	
2 -23	*9260083200	LOADING CASE II	1,3,4,6	
	*9260089000	LOADING CASE C	2,5	
2 -24	*9260080900	VR KNOB A		
2 -25	*9260084201	PANEL, FRONT	1	
	*9260087901	PANEL, FRONT	2	
	*9260090001	PANEL, FRONT	3	
	*9260078301	PANEL, FRONT	4	
	*9260089801	PANEL, FRONT	5	
	*9260089901	PANEL, FRONT	6	
2 -26	*9145053200	PCB ASSY, METER		
2 -27	⚠9125054000	TRANSFORMER, POWER [US]		
	⚠9125054200	TRANSFORMER, POWER [E][UK][A]		
	⚠9125054300	TRANSFORMER, POWER [GE]		
	⚠9125054501	TRANSFORMER, POWER [C]		
	⚠9125054800	TRANSFORMER, POWER [J]		
2 -28	9155053800	PCB C, TRANSFORMER		
2 -29	9155053600	PCB A, TRANSFORMER [GE]		
	9155053701	PCB B, TRANSFORMER [E][A][UK]		
	9155049300	PCB UCJ, TRANSFORMER [US][C][J]		
2 -30	⚠9121000100	BUSHING #2271		
2 -31	⚠9109025800	CORD, AC [US][C][GE]		
	⚠9109025701	CORD, AC [E]		
	⚠9109026000	CORD, AC [A]		
	⚠9109026100	CORD, AC [J]		
	⚠9109025901	CORD, AC [UK]		
2 -32	9145053500	PCB ASSY, VOLTAGE SELECTOR SW [GE]		
2 -33		CHASSIS, MAIN [US]	1,2,4,6	
		CHASSIS, MAIN [GE]	1,2,4,6	

EXPLODED VIEW-2

Parts marked with *require longer delivery time

REF.NO.	PARTS NO.	DESCRIPTION	MODELS	REMARKS
2 -33		CHASSIS, MAIN [E] CHASSIS, MAIN [C]		
2 -34	9260088000	FOOT		
2 -35	9260082400	FOOT ASSY		
2 -36	9145053300	PCB ASSY, REC VR		
2 -37	9260080000	VR KNOB C		
2 -38	9260080100	VR RAIL B		
2 -39	*9260080500	BRACKET, COUNTER		
2 -40	9783053006	SCREW, CAP-S M3*6		
2 -41	9783203006	SCREW, BTT-S M3*6		
2 -42	9783603008	SCREW, BTT-P M3*8		
2 -43	9783603008	SCREW, BTT-P M3*8		
2 -44	9783204006	SCREW, BTT-S M4*6		
2 -45	9294005400	WASHER, SPRINT φ4		
2 -46	9783603008	SCREW, BTT-P M3*8		
2 -47	9783203008	SCREW, BTT-S M3*8		
2 -48	9783603008	SCREW, BTT-P M3*8		
2 -49	9783103006	SCREW, CAP-S M3*6		
2 -50	*9260079900	PUSH LINKAGE		
2 -51	*9260083300	BUTTON, PUSH		

INCLUDED ACCESSORIES

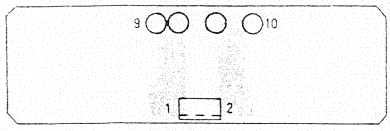
REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
	*9101372702	OWNER'S MANUAL (ENGLISH)	W-370C/W-350
	*9101372800	OWNER'S MANUAL (FRENCH)	W-370C/W-350
	*9101373900	OWNER'S MANUAL (JAPANESE)	W-370C
	*9101372901	OWNER'S MANUAL (ENGLISH)	W-375C/W-355
	*9101373000	OWNER'S MANUAL (FRENCH)	W-375C/W-355
	*9101373100	OWNER'S MANUAL (6 MULTI)	W-310CmkII/W-300mkII
	*9101373200	OWNER'S MANUAL (6 MULTI)	W-310CmkII/W-300mkII
	*9109025100	CORD, INPUT	

Parts marked with *require longer delivery time.

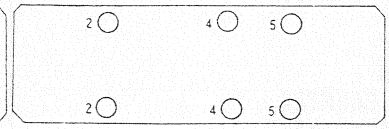
MODELS: 1:W-350 2:W-355 3:W-300mkII 4:W-370C 5:W-375C 6:W-310CmkII
[US]:USA [E]:EUROPE [UK]:UK [C]:CANADA
[A]:AUSTRALIA [GE]:GENERAL EXPORT [J]:JAPAN

7 PC BOARDS AND PARTS LIST

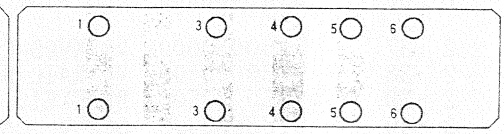
TRANS PCB C



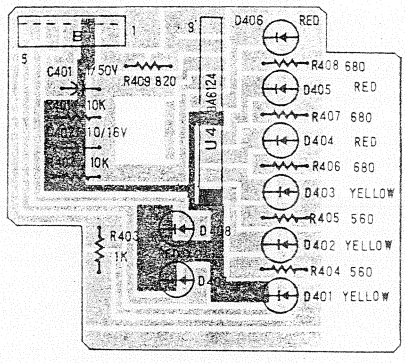
TRANS PCB B



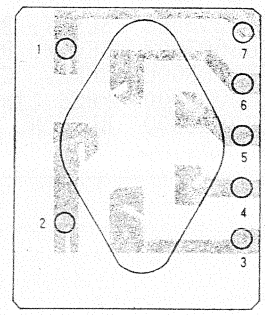
TRANS PCB A



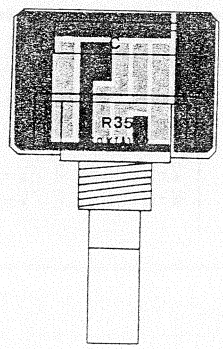
METER PCB ASSY



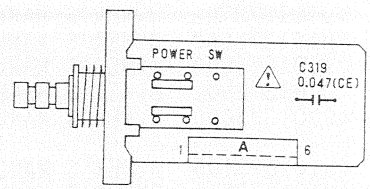
VOLTAGE SELECTOR PCB ASSY



REC VR PCB ASSY



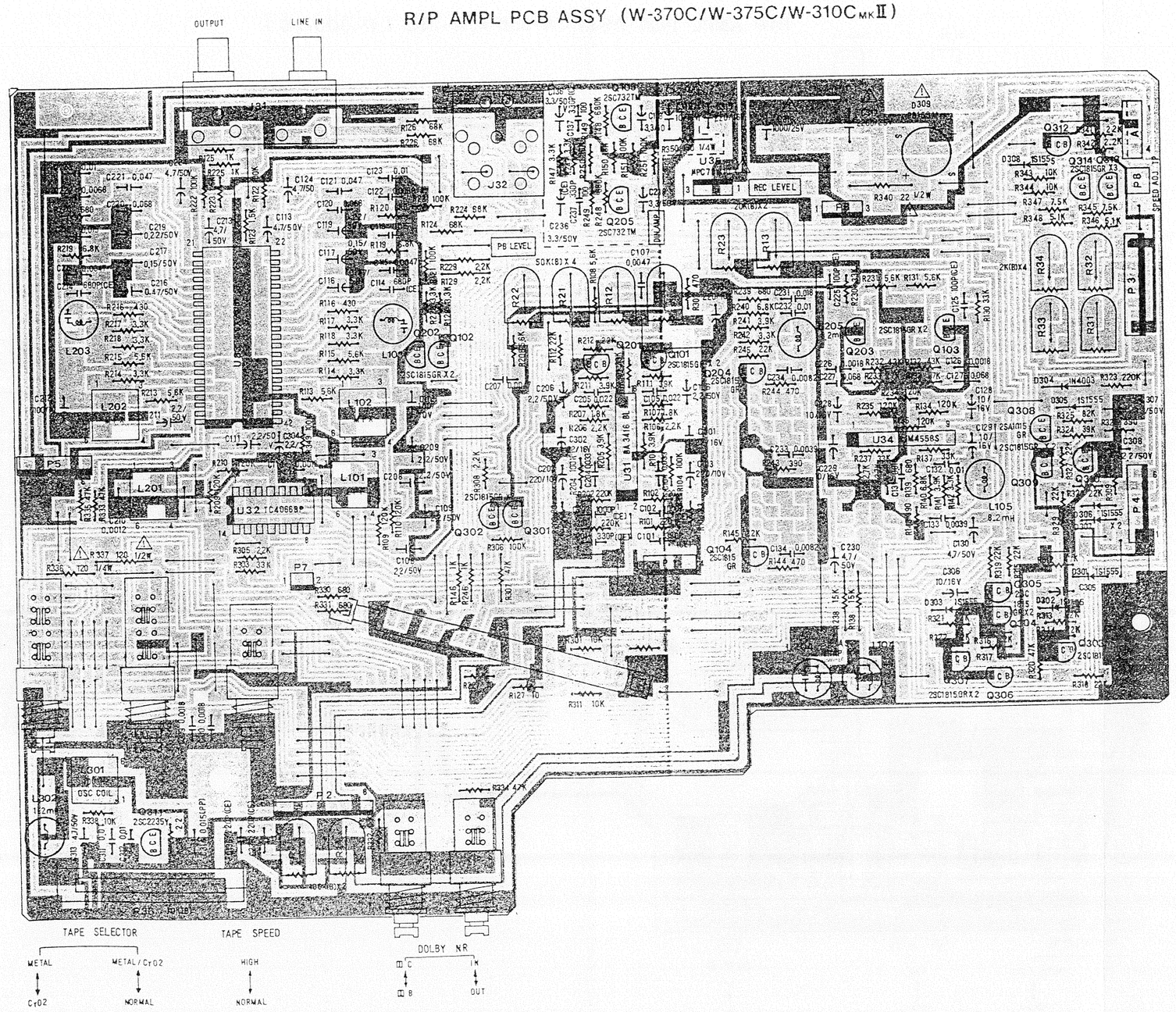
POWER SW PCB ASSY



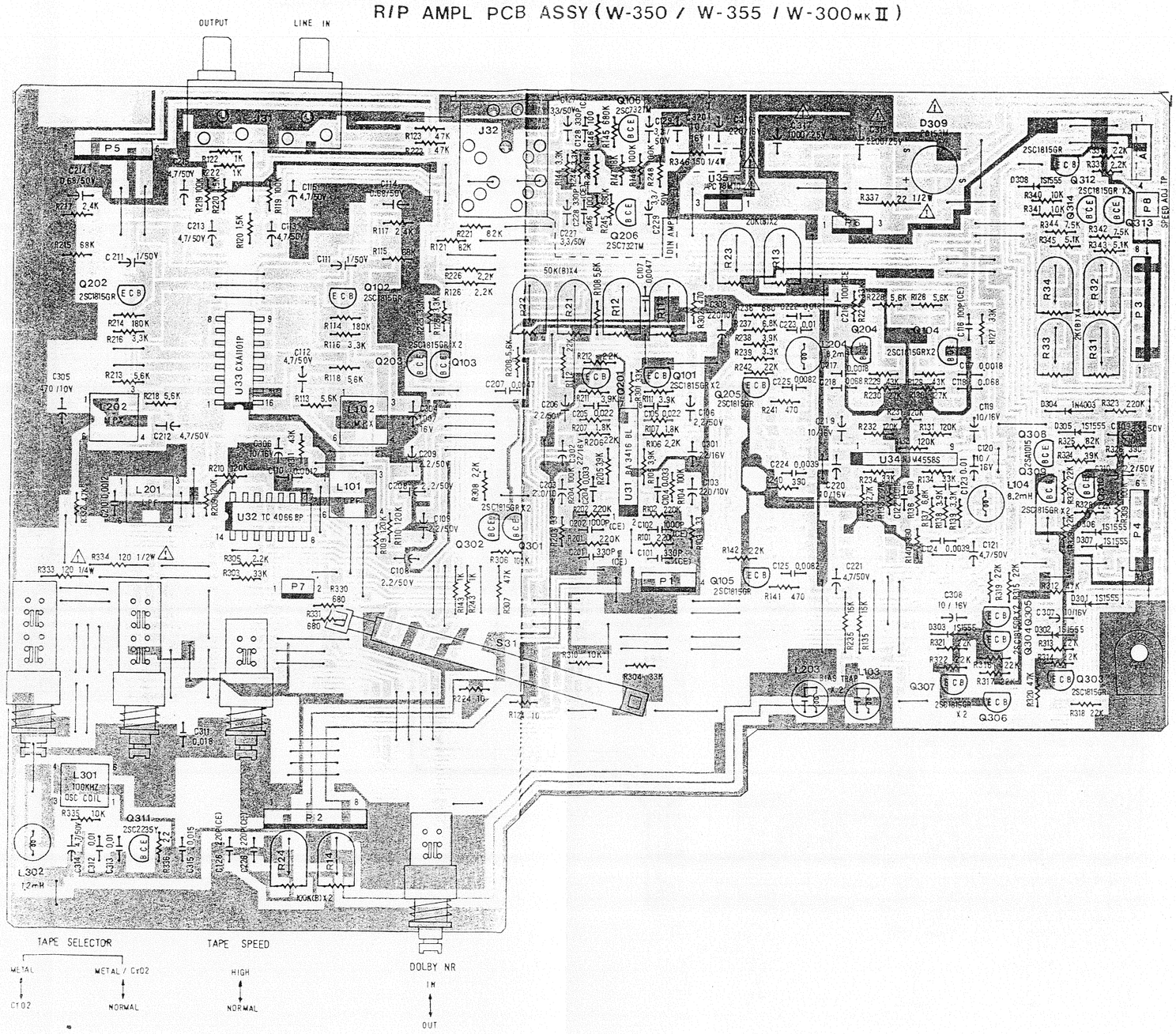
NOTES

1. PC boards are shown viewed from foil side.
2. The colors on the PC board illustrations have the following significance:
   ▭: GND
   ▭: other
3. Resistor values are in ohms (k=kilo-ohms M=megohms).
4. All capacitor values are in microfarads (p=picofarads).
5. ⚠ Parts marked with this sign are safety critical components. They must always be replaced with identical components. Refer to the appropriate parts list to ensure exact replacement.

R/P AMPL PCB ASSY (W-370C/W-375C/W-310CMKII)



R/P AMPL PCB ASSY (W-350 / W-355 / W-300MKII)



METTER PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	※9145053201	PCB ASSY, METER
	※9155053200	METER PCB
U41	9167010800	IC BA6124
D401-D403	9174012020	LED (YEL) LTL-307YE-021
D404-D408	9174011520	LED (RED) LTL-5124

REC VR PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	※9145053300	PCB ASSY, REC VR
	※9155053300	REC VR PCB
R35	9172015500	REC VR 50K(A)※2

POWER SW PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	※9145053401	PCB ASSY, POWER SW
	※9155053401	POWER SW PCB
S33	⚠9135029300	POWER SWITCH
C315	⚠9115823120	C, CERAMIC 0.047u 50VK (YF)

SELECTOR SW PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	※9145053500	PCB ASSY, SELECTOR SW
	※9155053500	SELECTOR SW PCB
	⚠5332019700	VOLTAGE SELECTOR SW

R／P PCB ASSY(W-355/W-350/W-300mkⅡ)

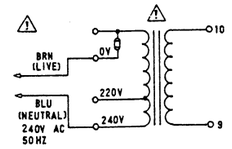
REF.NO.	PARTS NO.	DESCRIPTION
	*9145054101	PCB ASSY, R/P AMP (W-350/W-355/W-300mkⅡ)[EXCEPT E]
	*9145054111	PCB ASSY, R/P AMP (W-300mkⅡ) [E]
	*9155054100	R/P AMP PCB
U31	9167013000	IC BA3416BL
U32	9167009800	IC TC-4066BP
U33	9167012700	IC CXA1101P
U34	9167012100	IC NJM4558S
U35	⚠9167013100	IC uPC78M10
Q101 Q201	9163309420	TR, 2SC1815GR
Q102 Q202	9163309420	TR, 2SC1815GR
Q103 Q203	9163309420	TR, 2SC1815GR
Q104 Q204	9163309420	TR, 2SC1815GR
Q105 Q205	9163309420	TR, 2SC1815GR
Q106 Q206	9163309720	TR, 2SC732TM-BL [E]
Q301-Q307	9163309420	TR, 2SC1815GR
Q308	9163009920	TR, 2SA1015GR
Q309 Q310	9163309420	TR, 2SC1815GR
Q311	9163308900	TR, 2SC2235Y
Q312-Q314	9163309420	TR, 2SC1815GR
D301-D303	9165020250	DIODE 1S1555
D304	9165021150	DIODE 1N4003
D305-D308	9165020250	DIODE 1S1555
D309	⚠9165021500	DIODE PB153M
R11 R21	9112001000	VR, SEMI-FIXED 50K(B)
R12 R22	9112001000	VR, SEMI-FIXED 50K(B)
R13 R23	9112017000	VR, SEMI-FIXED 20K(B)
R14 R24	9112002000	VR, SEMI-FIXED 100K(B)
R31 -R34	9112016000	VR, SEMI-FIXED 2K(B)
L101 L201	9122017501	LOW PASS FILTER 100KHz
L102 L202	9173002501	LOW PASS FILTER MPX
L103 L203	9122017600	BIAS TRAP COIL 100KHz
L104 L204	9122015300	COIL 8.2mH
L301	9173003400	OSC COIL
L302	9122013300	COIL 1.2mH
J31	5330506600	4P PIN JACK
J32	9140096000	DIN SOCKET [E]
S31	9134009100	SLIDE SW 6-2 [EXCEPT E]
	9134009000	SLIDE SW 7-2 [E]
S32 -S33	9135029900	PUSH SW 4-2
S34 -S35	9135028300	PUSH SW 2-2
P1	9143172000	CONNECTOR PLUG 4P
P2 P3	9143176000	CONNECTOR PLUG 8P
P4 P5	9143174000	CONNECTOR PLUG 6P
P6	9143171000	CONNECTOR PLUG 3P
P7	9143170000	CONNECTOR PLUG 2P
P8	9160013000	2P T.P PIN
R333	⚠9111044050	C, RESISTOR R-25 JFT 120 OHM
R334	⚠9111351060	C, RESISTOR R-50 FF 120 OHM

R／P PCB ASSY(W-375C/W-370C/W-310CmkⅡ)

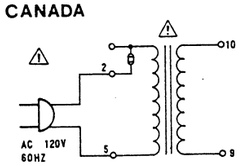
REF.NO.	PARTS NO.	DESCRIPTION
	*9145053101	PCB ASSY, R/P AMP (W-370C/W-375C/W-310CmkⅡ)[EXCEPT E]
	*9145053111	PCB ASSY, R/P AMP (W-310CmkⅡ) [E]
	*9155053100	R/P AMP PCB
U31	9167013000	IC BA3416BL
U32	9167009800	IC TC-4066BP
U33	5220427000	IC CX-20187
U34	9167012100	IC NJM4558S
U35	⚠9167013100	IC uPC78M10
Q101 Q201	9163309420	TR, 2SC1815GR
Q102 Q202	9163309420	TR, 2SC1815GR
Q103 Q203	9163309420	TR, 2SC1815GR
Q104 Q204	9163309420	TR, 2SC1815GR
Q105 Q205	9163309720	TR, 2SC732TM-BL [E]
Q301-Q307	9163309420	TR, 2SC1815GR
Q308	9163009920	TR, 2SA1015GR
Q309 Q310	9163309420	TR, 2SC1815GR
Q311	9163308900	TR, 2SC2235Y
Q312-Q314	9163309420	TR, 2SC1815GR
D301-D303	9165020250	DIODE 1S1555
D304	9165021150	DIODE 1N4003
D305-D308	9165020250	DIODE 1S1555
D309	⚠9165021500	DIODE PB153M
R11 R21	9112001000	VR, SEMI-FIXED 50K(B)
R12 R22	9112001000	VR, SEMI-FIXED 50K(B)
R13 R23	9112017000	VR, SEMI-FIXED 20K(B)
R14 R24	9112002000	VR, SEMI-FIXED 100K(B)
R31 -R34	9112016000	VR, SEMI-FIXED 2K(B)
R36	9172016400	SLIDE VR 10K(B)
L101 L201	9122017501	LOW PASS FILTER 100KHz
L102 L202	9173002501	LOW PASS FILTER MPX
L103 L203	9173002700	LOW PASS FILTER 19.8KHz
L104 L204	9122017600	BIAS TRAP COIL 100KHz
L105 L205	9122015300	COIL 8.2mH
L301	9173003400	OSC COIL
L302	9122013300	COIL 1.2mH
J31	5330506600	4P PIN JACK
J32	9140096000	DIN SOCKET [E]
S31	9134009100	SLIDE SW 6-2 [EXCEPT E]
	9134009000	SLIDE SW 7-2 [E]
S32 -S33	9135029900	PUSH SW 4-2
S34	9135028300	PUSH SW 2-2
S35	9135029700	PUSH SW 2-GANG
P1	9143172000	CONNECTOR PLUG 4P
P2 P3	9143176000	CONNECTOR PLUG 8P
P4 P5	9143174000	CONNECTOR PLUG 6P
P6	9143171000	CONNECTOR PLUG 3P
P7	9143170000	CONNECTOR PLUG 2P
P8	9160013000	2P T.P PIN
R336	⚠9111044050	C, RESISTOR R-25 JFT 120 OHM
R337	⚠9111351060	C, RESISTOR R-50 FF 120 OHM

[US]: U.S.A. [E]: EUROPE [UK]: U.K. [C]: CANADA
[A]: AUSTRALIA [GE]: GENERAL EXPORT [J]: JAPAN

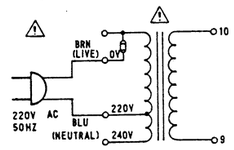
U.K.



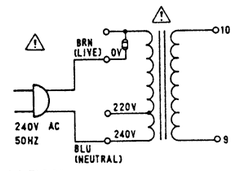
CANADA



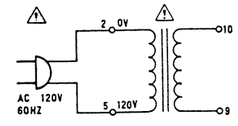
EUROPE



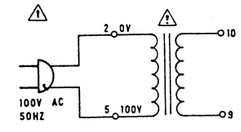
AUSTRALI



JAPAN



U.S.A.



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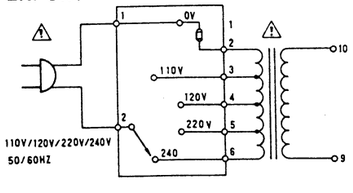
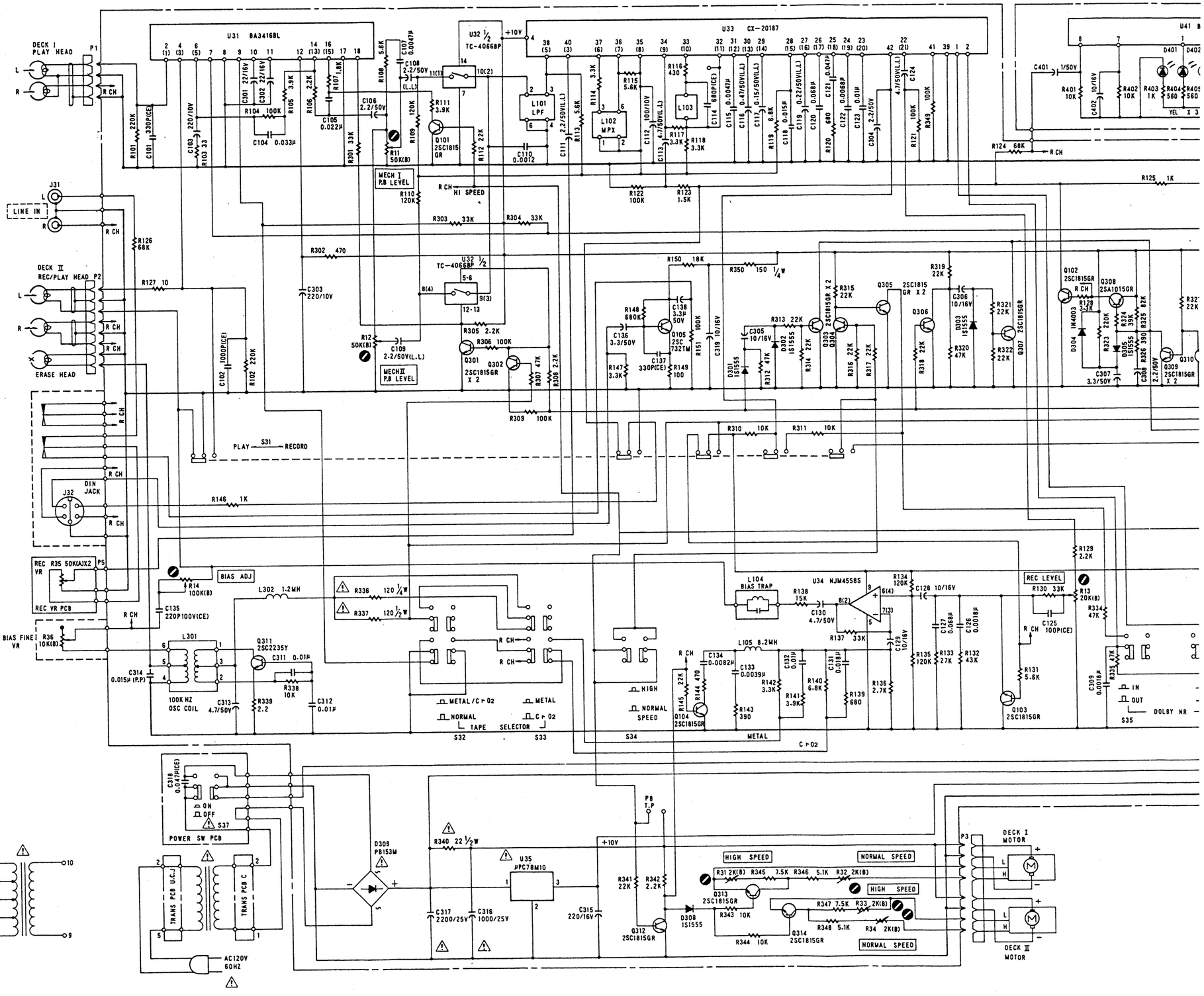
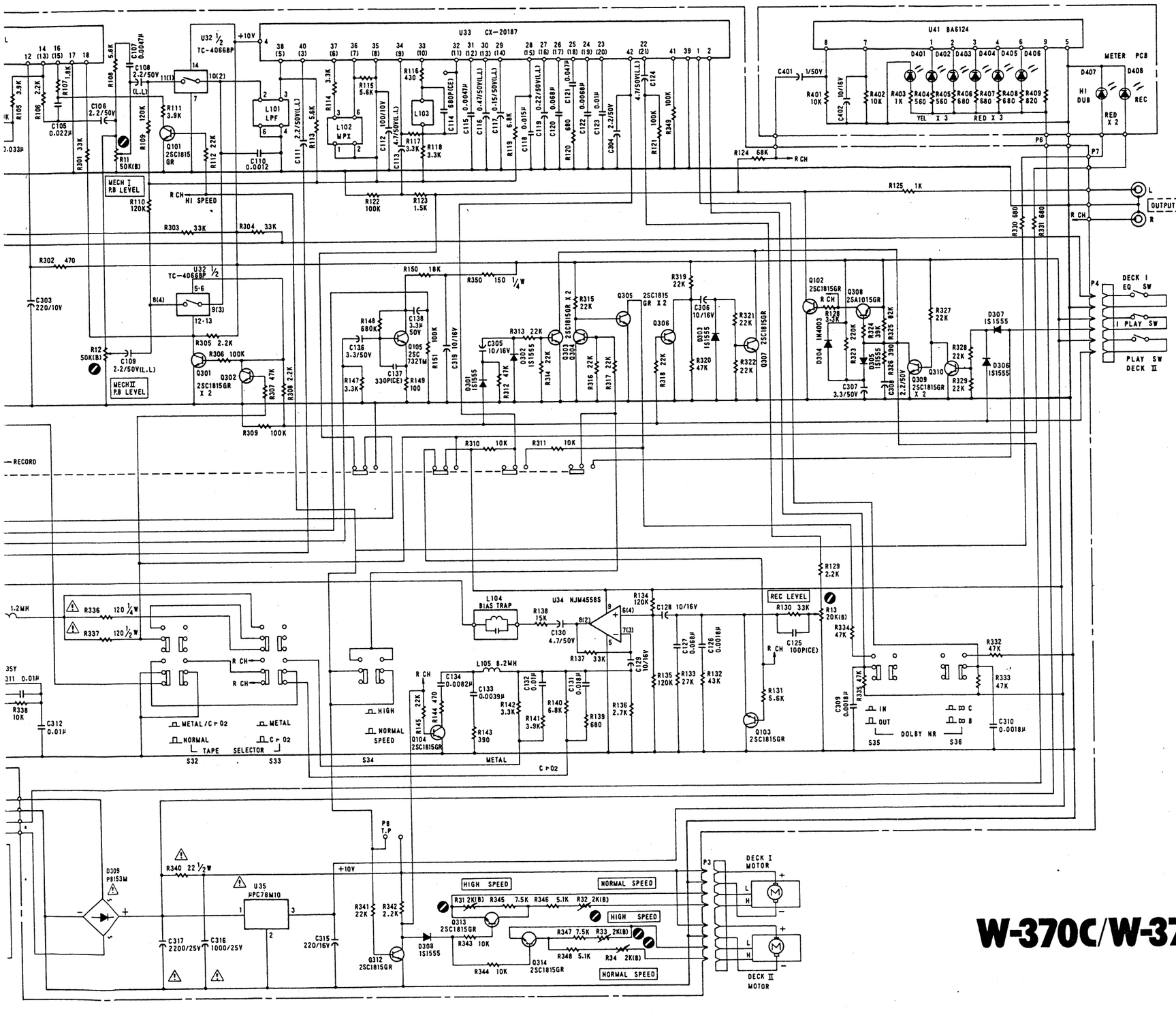






INSTRUCTIONS FOR SERVICE PERSONNEL

BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

NOTES

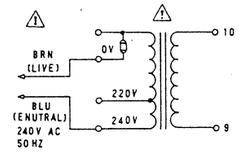
1. Resistor values are in ohms (k=kilo-ohms, M=megohms).
2. Capacitor values are in microfarads (p=picofarads).
3. Voltage and signal level values are for reference only.
   0dB=0.775V
4. ▭: Front panel indication
5. ┅┅┅: Rear panel indication
6. ⚠ Parts marked with this sign are safety critical components. They must always be replaced with identical components-refer to the appropriate parts list and ensure exact replacement.

W-370C/W-375C

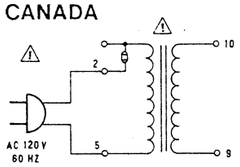
Stereo Double Cassette Deck

1st Issue;

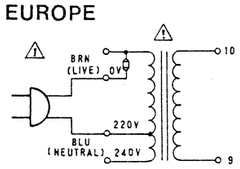
U.K.



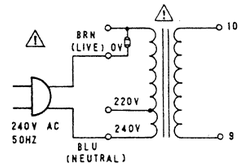
CANADA



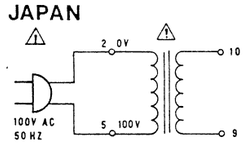
EUROPE



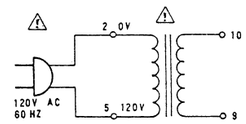
AUSTRA



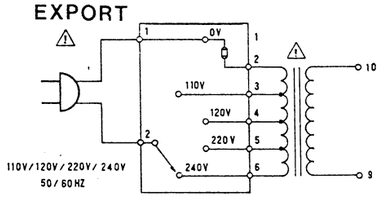
JAPAN



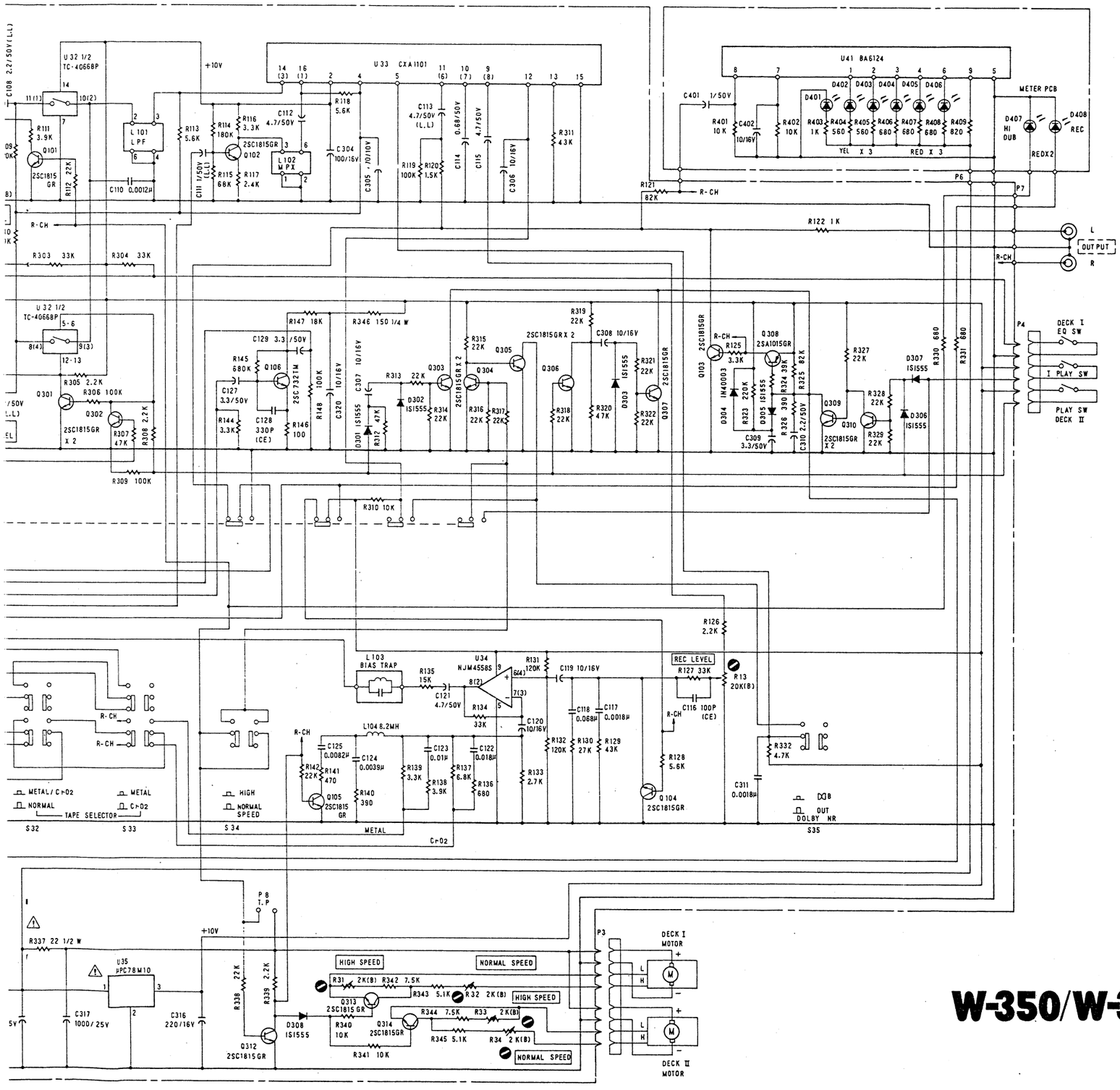
U.S.A.



EXPORT



W-350



INSTRUCTIONS FOR SERVICE PERSONNEL

BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

NOTES

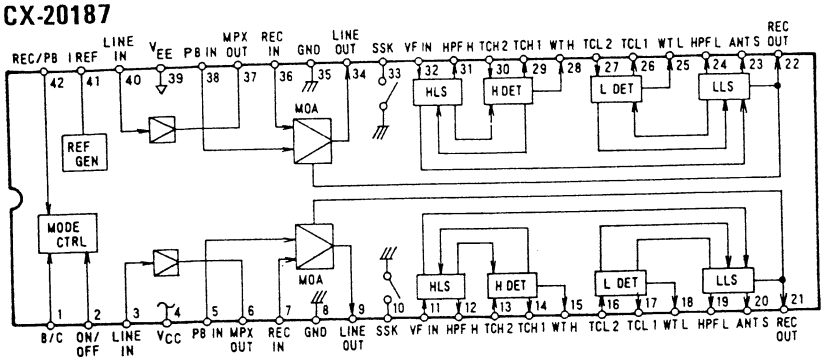
1. Resistor values are in ohms (k=kilo-ohms, M=megohms).
2. Capacitor values are in microfarads (p=picofarads).
3. Voltage and signal level values are for reference only.
   0dB=0.775V
4. ▭: Front panel indication
5. ┄┄┄: Rear panel indication
6. ⚠ Parts marked with this sign are safety critical components. They must always be replaced with identical components-refer to the appropriate parts list and ensure exact replacement.

W-350/W-355 Stereo Double Cassette Deck

1st Issue;

IC BLOCK DIAGRAM

CX-20187



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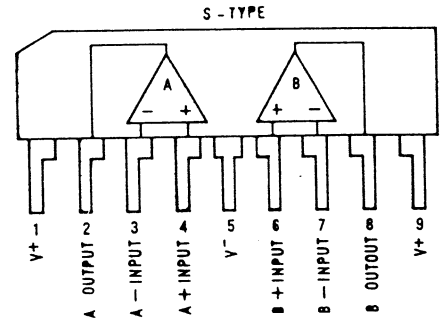

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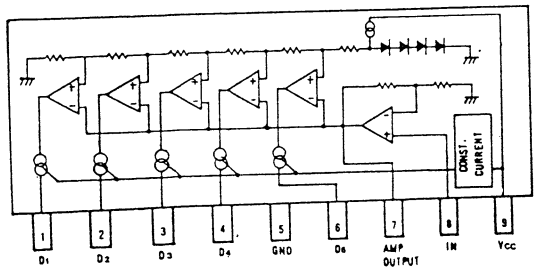

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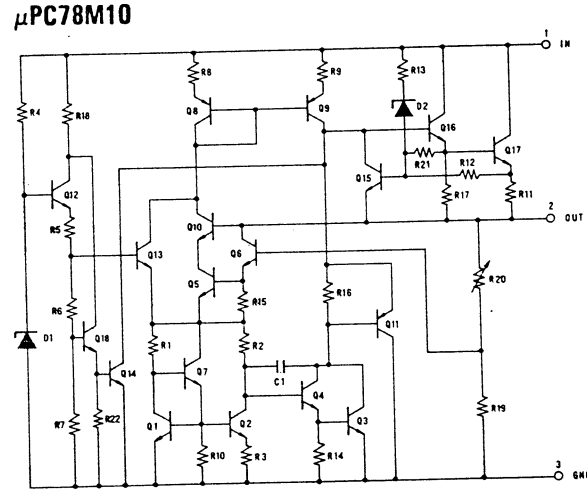

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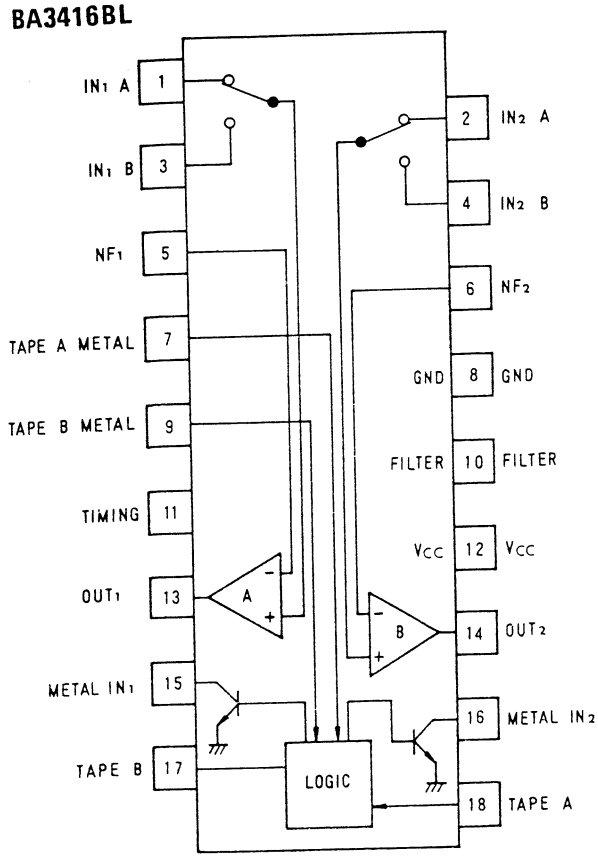

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